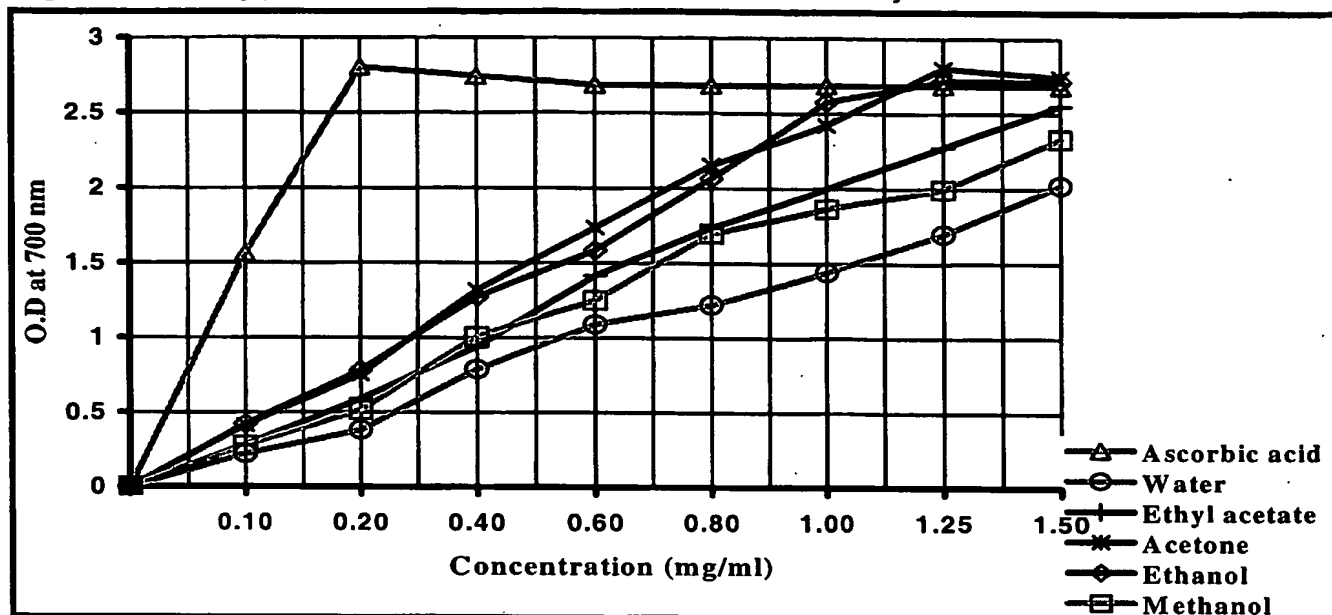
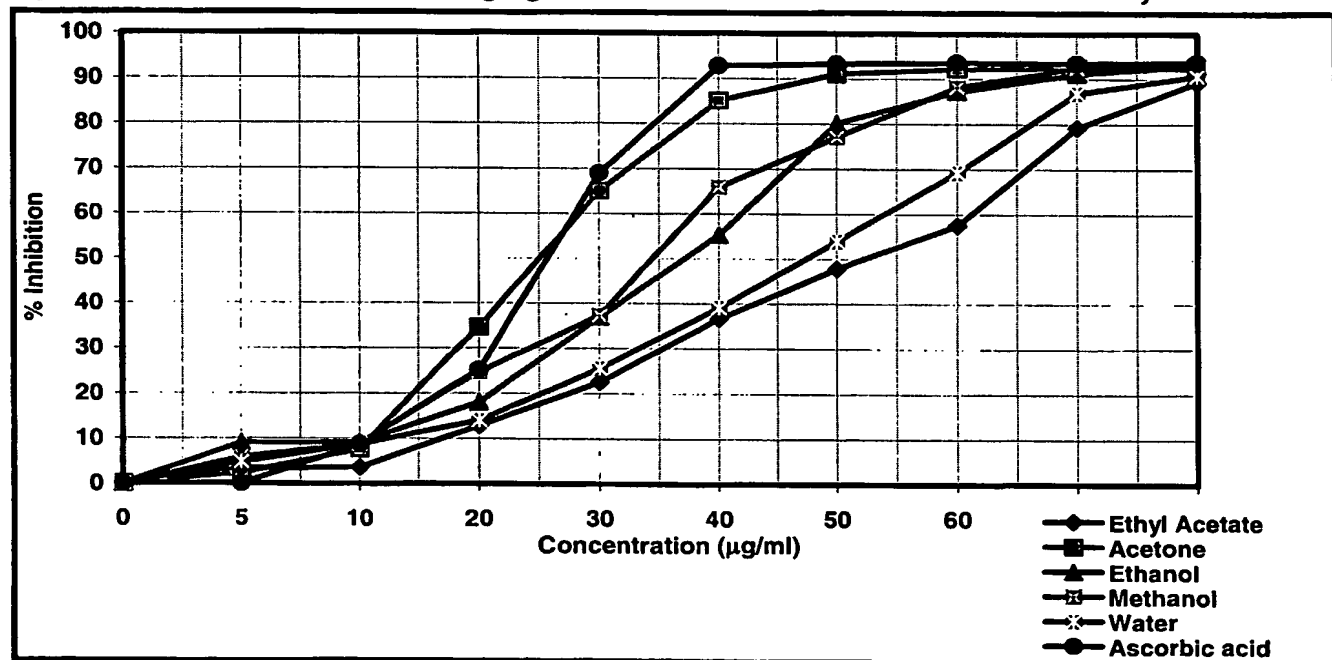


Fig. 1: Reducing potential of bark extracts from *Terminalia arjuna*. bark extracts.

Each value is expressed as mean \pm standard deviation (n=3).

Fig. 2: DPPH free radical scavenging effect of bark extracts from *Terminalia arjuna*.

Each value is expressed as mean \pm standard deviation (n=3).

Fig 3. Antibacterial activity of *Terminalia arjuna* bark ethyl acetate, acetone, ethanol, methanol and water extracts (5mg/ml).

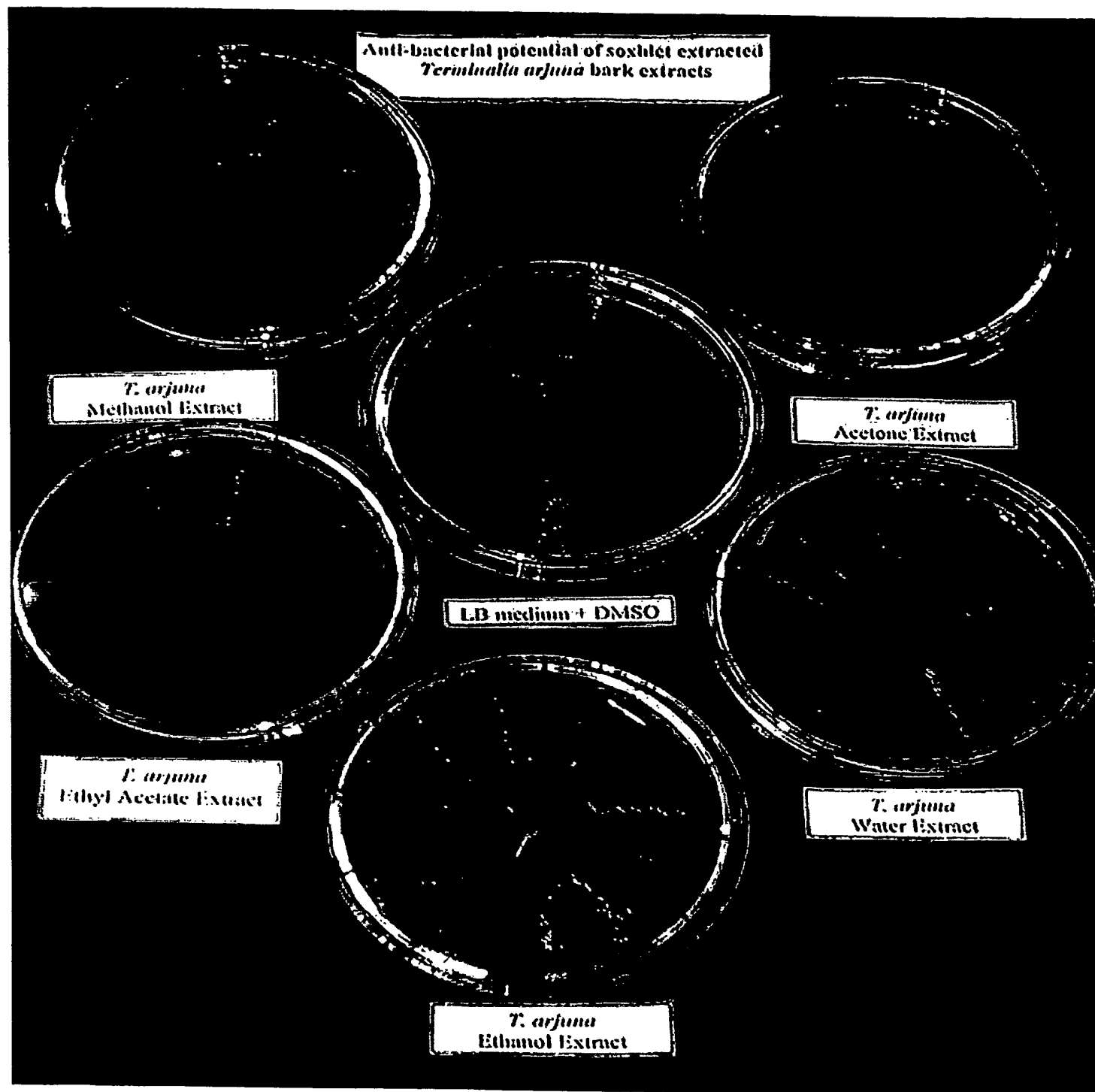


Fig 4: Antibacterial activity of *Terminalia arjuna* bark ethyl acetate

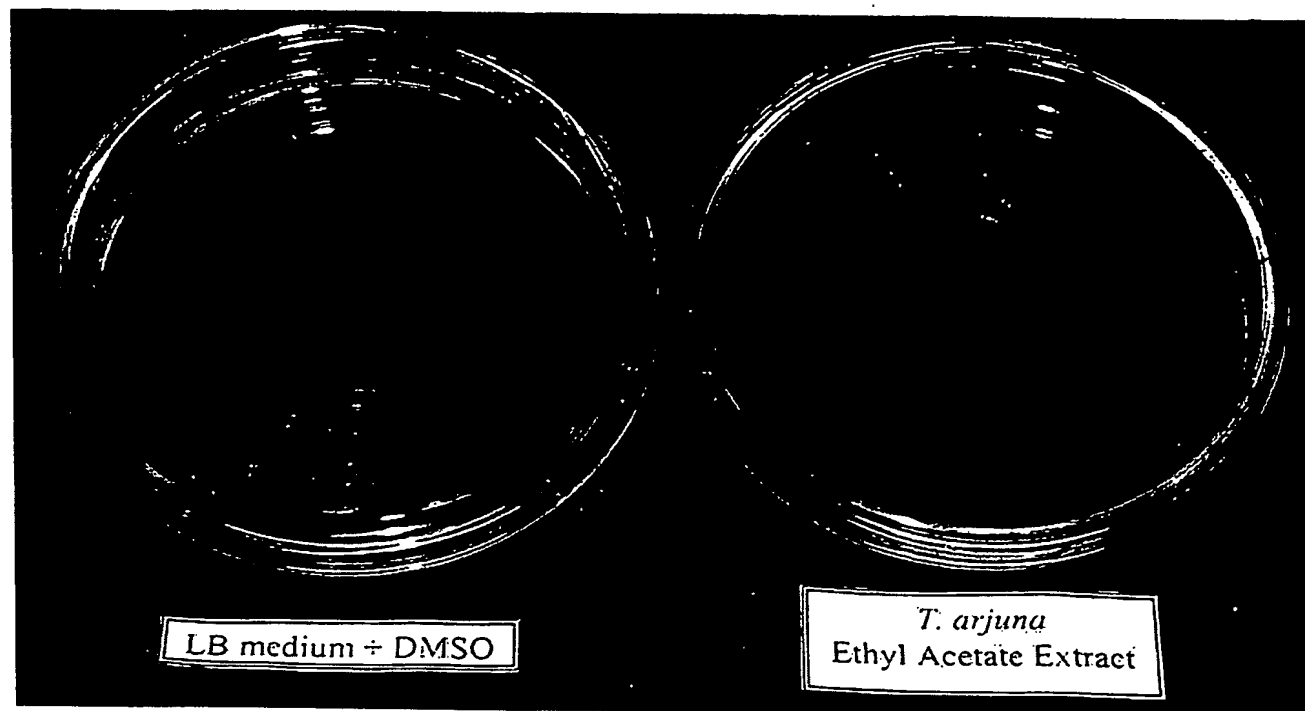


Fig 5: growth of the bacterial strains on the LB, LB with 5 % DMSO and LB with 2 μ g/ml ciprofloxacin as positive controls

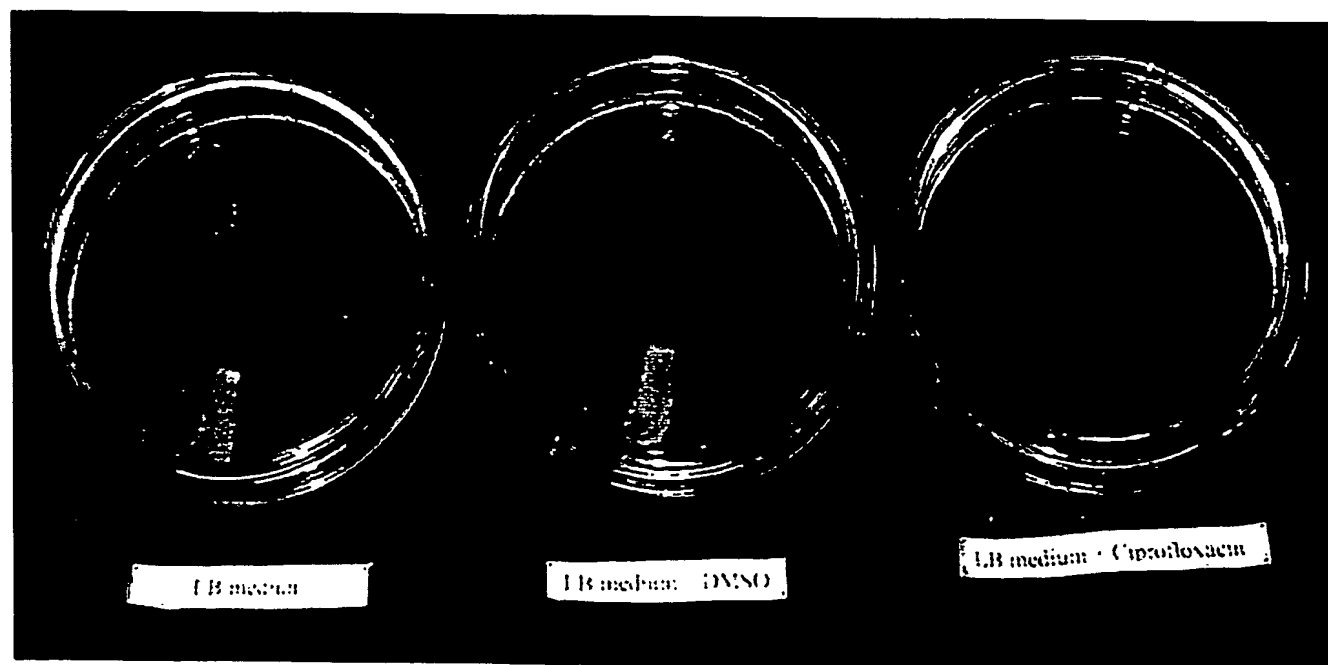


Table 1: Reducing potential of *Terminalia arjuna* extracts.

Sr. No	Conc. (mg/ml)	O.D at 700 nm					
		Ethyl acetate	Acetone	Ethanol	Methanol	Ascorbic acid	Water
1.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.	0.10	0.281±.017	0.414±.014	0.421±.047	0.276±0.018	1.562±.076	0.221± 0.007
3.	0.20	0.589±.023	0.754±.016	0.781±.076	0.513±.020	2.803±.088	0.380± 0.055
4.	0.40	0.941±.020	1.318±.055	1.273±.082	1.008±.051	2.774±.128	0.789± 0.026
5.	0.60	1.415±.048	1.737±.200	1.584±.177	1.252±.181	2.686±.042	1.089± 0.046
6.	0.80	1.737±.256	2.154±.070	2.066±.143	1.698±.027	2.686±.042	1.222± 0.072
7.	1.00	1.998±.073	2.420±.125	2.575±.083	1.884±.109	2.686±.042	1.439± 0.120
8.	1.25	2.277±.084	2.802±.064	2.717±.111	1.995±.122	2.686±.042	1.697± 0.121
9.	1.5	2.554±.072	2.774±.140	2.717±.121	2.334±.056	2.686±.042	2.023± 0.089

Each value is expressed as mean±standard deviation (n=3).

Table 2: DPPH free radical scavenging effect of bark extracts from *Terminalia arjuna*

Sr. No	Conc. (µg/ml)	% Inhibition					
		Ethyl acetate	Acetone	Ethanol	Methanol	Water	Ascorbic acid
1.	0	0	0	0	0	0	0
2.	5	3.4	2.3	9	5.8	4.8	0
3.	10	3.6	7.7	9.1	8.9	8.8	8.8
4.	20	12.8	34.6	18	24.8	14	25.2
5.	30	22.5	65	37	37.3	25.6	68.9
6.	40	36.5	85.1	55.3	66	39.1	92.8
7.	50	47.8	91.1	80.1	77	53.9	93.3
8.	60	57.5	92.3	87.2	88.1	69.2	93.6
9.	80	79.3	92.5	91.2	92.5	86.8	93.5
10.	100	89.3	92.8	93	92.5	90.8	93.7

Each value is expressed as mean±standard deviation (n=3).

Table 3. Antimicrobial activity of soxlet extracted *Terminalia arjuna* bark extracts:

Sr. No.	Organism	Extracts										Control		
		Ethyl Acetate		Acetone		Ethanol		Methanol		Water		LB	LB+ DMSO (5%)	LB + Ciprofloxacin (2 µg/ml)
		1mg/ml	5 mg/ml	1mg/ml	5 mg/ml	1mg/ml	5mg/ml	1mg/ml	5 mg/ml	1mg/ml	5 mg/ml			
	Gram Negative													
1.	<i>E. coli</i>	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	-
2.	<i>P. aeruginosa</i>	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	-
3.	<i>K. pneumoniae</i>	+++	-	+++	++	+++	+++	+++	+++	+++	+++	+++	+++	-
4.	<i>B. bronchiseptica</i>	-	-	+	-	+++	-	+++	-	+++	-	+++	+++	-
	Gram Positive													
5.	<i>S. aureus</i>	-	-	-	-		-		-		-	+++	+++	-
6.	<i>S. fecalis</i>	-	-	-	-	+++	-	+++	-	+++	-	+++	+++	-
7.	<i>M. luteus</i>	+++	-	+++	-	+++	-	+++	-	+++	-	+++	+++	-
8.	<i>B. subtilis</i>	+++	-	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	-
9.	<i>B. cereus</i>	+++	-	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	-
10.	<i>B. pumilus</i>	+++	-	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	-
11.	<i>S. epidermidis</i>	+++	-	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	-

+++; abundant growth, +; growth; -, no growth